

# Product Datasheet

## Lightning-Link (R) APC-Cy5.5 Antibody Labeling Kit 764-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

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**764-0010****Lightning-Link (R) APC-Cy5.5 Antibody Labeling Kit**

<b>Product Information</b>	
<b>Unit Size</b>	3 x 100ug Reaction
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at -20C.
<b>Conjugate</b>	Allophycocyanin/Cy5.5

<b>Product Description</b>	
<b>Description</b>	<p>Lightning-Link antibody labeling kits enable the direct labeling of antibodies, proteins, peptides or other biomolecules for use in R&amp;D applications, drug discovery and the development of diagnostic kits (See protocol for further information).</p> <p>Our APC/Cy5.5 antibody labeling kit enables the direct conjugation of the APC/Cy5.5 tandem dye to any biomolecule with an available amine group. The researcher simply pipettes the antibody or other biomolecule into the vial of Lightning-Link label and incubates for 3 hours.</p> <p><b>Features</b>Quick and easy to use  <b>Benefits</b>Save time, no special knowledge required          No separation steps          100% recovery - no antibody/protein loss          Can be used in a wide range of applications          Flexible          Freeze dried          Ships at ambient temperature, long shelf-life          Fully scalable (10 ug to 1 g or more)          Easy transfer from R&amp;D to manufacturing          Stringently QC tested          Consistent high quality, excellent batch-to-batch reproducibility          Large number of labels available          Experimental flexibility          Reliable: nearly 300 references          Successfully used in many fields of research</p> <p>APC/Cy5.5 is a tandem conjugate. The APC is excited at 652nm and functions as an energy donor for the Cy5.5. Energy is transferred from the APC to the Cy5.5 via <b>FRET</b> (Fluorescence Resonance Energy Transfer). The Cy5.5 emits then the energy received from the APC in the form of long wavelength light at 700nm.</p> <p>Learn more about Lightning-Link™ Conjugation Kits by reading <a href="#">FAQs</a></p> <p>For more information please check out these useful links!  <a href="#">Antibody Labeling Guide</a>  <a href="#">Antibody Conjugation Illustrated Assay</a></p>
<b>Kit Components</b>	1 or 3 glass vial(s) of Lightning-Link mix, 1 vial of LL-Modifier reagent, 1 vial of LL-Quencher reagent
<b>Notes</b>	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> with questions.</p>

<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry
<b>Recommended Dilutions</b>	Flow Cytometry

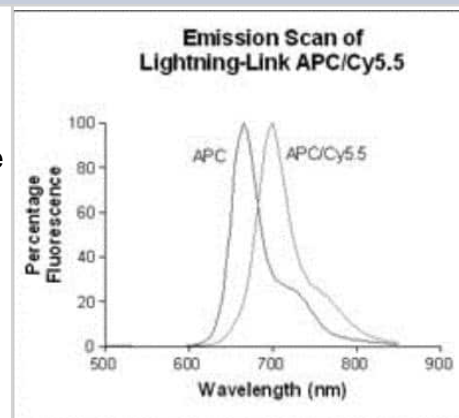


**Application Notes**

By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 10 ug) and large quantities of primary antibodies with ease. Batch-to-batch variation upon scale up is minimal as the process is so simple, and recoveries are always 100%. This kit is supplied with 3 vials, each suitable for labeling up to 150 ug of antibody.

**Images**

Flow Cytometry: Lightning-Link APC-Cy5.5 Antibody Labeling Kit [764-0010] - APC/Cy5.5 is a tandem conjugate. The APC is excited at 633nm and functions as an energy donor for the Cy5.5. Energy is transferred from the APC to the Cy5.5 via FRET (Fluorescence Resonance Energy Transfer). The Cy5.5 emits then the energy received from the APC in the form of long wavelength light at 694nm.





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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